

<b>REQUEST FOR QUOTATIONS</b> <b>(THIS IS NOT AN ORDER)</b>			THIS RFQ <input checked="" type="checkbox"/> IS <input type="checkbox"/> IS NOT A SMALL BUSINESS SET-ASIDE		PAGE 1 OF 15 PAGES		
1. REQUEST NO. DTRS57-02-Q-80143		2. DATE ISSUED 08/26/2002		3. REQUISITION/PURCHASE REQUEST NO. 40-3113		4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1	
5a. ISSUED BY U.S. DOT/RSPA/Volpe Center 55 Broadway Cambridge MA 02142				6. DELIVER BY (Date) 10/31/2002			
5b. FOR INFORMATION CALL : (No collect calls)				7. DELIVERY <input checked="" type="checkbox"/> FOB DESTINATION <input type="checkbox"/> OTHER (See Schedule)			
				9. DESTINATION			
				a. NAME OF CONSIGNEE U.S. DOT/RSPA/Volpe Center			
NAME Katherine Chao		TELEPHONE NUMBER AREA CODE 617 NUMBER 494-3124		b. STREET ADDRESS 125 Munroe Street Receiving Dock			
8. TO:				c. CITY Cambridge			
a. NAME		b. COMPANY		d. STATE MA			
c. STREET ADDRESS				e. ZIP CODE 02142			
d. CITY		e. STATE		f. ZIP CODE			
10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS(Date) 09/12/2002 1400 ES		IMPORTANT: This is a request for information, and quotations furnished are not offers. If you are unable to quote, please so indicate on this form and return it to the address in Block 5a. This request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or services. Supplies are of domestic origin unless otherwise indicated by quoter. Any representations and/or certifications attached to this Request for Quotations must be completed by the quoter.					
11. SCHEDULE (Include applicable Federal, State and local taxes)							
ITEM NO. (a)	SUPPLIES/SERVICES (b)			QUANTITY (c)	UNIT (d)	UNIT PRICE (e)	
0001	Contractor will be required to engineer program and install audio visual projection equipment in room #1-345A, in accordance with the attached specifications - attachment #3.			1.00	EA		
0002	Contractor will be required to engineer, program, install audio visual projection equipment in room # 1-345B, in accordance with the attached specifications - attachment #3  The work to be performed in CLIN Nos 0001 and 0002 will be completed at the following address: Volpe National Transportation Systems Center, 55 Broadway, Cambridge, MA 02142 in accordance with the attached specification (Attachment #3) Continued ...			1.00	EA		
12. DISCOUNT FOR PROMPT PAYMENT		a. 10 CALENDAR DAYS (%)		b. 20 CALENDAR DAYS (%)		c. 30 CALENDAR DAYS (%)	
						d. CALENDAR DAYS NUMBER PERCENTAGE	
NOTE: Additional provisions and representations <input type="checkbox"/> are <input type="checkbox"/> are not attached.							
13. NAME AND ADDRESS OF QUOTER				14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION		15. DATE OF QUOTATION	
a. NAME OF QUOTER				16. SIGNER			
b. STREET ADDRESS						a. NAME (Type or print)	b. TELEPHONE
c. COUNTY						AREA CODE	
d. CITY		e. STATE	f. ZIP CODE	c. TITLE (Type or print)		NUMBER	

# CONTINUATION SHEET

REF.NO. OF DOC. BEING CONT'D.  
DTRS57-02-Q-80143

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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>When award is made a firm fixed-price purchase order is anticipated.</p> <p>The attached Small Business Representations must be completed and returned with your proposal.</p> <p>Items cited in the SOW should be brand name or "equal"</p> <p>All equipment must include standard commercial warranties.</p> <p>Period of performance:</p> <p>Date of Award of PO through October 31, 2002,</p> <p>Item Nos 0001 and 0002 must be offered one job lump sum. However, contractor is to provide detailed back up data, showing price offered for each piece of equipment and a separate price for the engineering, programming and insulation.</p> <p>Award will be based on the best price to the Government.</p> <p>A site visit is scheduled for Thursday, Sepember 5,2002 at 10:00 AM, Contractors must notify call Katherine B. Chao at 617/494-3124 at least 24 hours in advance if they plan to attaaend the site visit.</p> <p>Attachments.</p> <ol style="list-style-type: none"> <li>1. Terms and Conditions</li> <li>2. Small Business Representations</li> <li>3. Statement of Work</li> </ol>				

# PURCHASE ORDER TERMS AND CONDITIONS

Page 1A

**Request for Quotation (RFQ) No. DTRS57-02-Q-80143**  
**Attachment No. 1**

**52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)** - This contract incorporates the following clauses by reference with the same force and effect as is they were given in full text. Upon request the Contract Officer will make their full text available. Also, the full text of a clause may be accessed electronically at the following address:

**<http://farsite.hill.af.mil/vffar.htm>**

## I. Federal Acquisition Regulation (FAR Clauses incorporated by reference)

52.203-3	Gratuities	APR 1984
52.222-3	Convict Labor	AUG 1996
52.232-1	Payments	
52.232-8	Discounts for Prompt Payment	MAY 1997
52.232-25	Prompt Payment	JUN 1997
52.232-34	Optional Information for Electronic Funds Transfer Payment	AUG 1996
52.232-33	Electronic Funds Transfer Payment Methods	AUG 1996
52.233-1	Disputes	OCT 1995
52.233-3	Protest After Award	AUG 1996
52.237-2	Protection of Government Buildings, Equipment & Vegetation	APR 1984
52.242-15	Stop Work Order	AUG 1989
52.243-1	Changes -- Fixed Price	AUG 1987

The following clauses marked with an "X" also apply to this solicitation/contract:

## OPTIONS

<input type="checkbox"/>	FAR 52.217-3	Evaluation Exclusive of Options	APR 1984
<input type="checkbox"/>	FAR 52.217-4	Evaluation of Options Exercised at Time of Contract Award	JUN 1988
<input type="checkbox"/>	FAR 52.217-5	Evaluation of Options	JUL 1990
<input type="checkbox"/>	FAR 52.217-6	Option for Increased Quantity	MAR 1989
<input type="checkbox"/>	FAR 52.217-8	Option for Extend Services	AUG 1989
<input type="checkbox"/>	FAR 52.217-9	Option for Extend the Term for the Contract	MAR 1989

# PURCHASE ORDER TERMS AND CONDITIONS

Page 1A (cont'd)

## SERVICES

<input type="checkbox"/>	FAR 52.217-41	Service Contract Act of 1965, as Amended	MAY 1989
<input type="checkbox"/>	FAR 52.222-42	Statement of Equipment for Federal Hires	MAY 1999
<input type="checkbox"/>	FAR 52.222-47	SCA Minimum Wages and Fringe Benefits Applicable to Successor Contract Pursuant to Predecessor Contractor Collective Bargaining Agreements (CBA)	MAY 1989
<input type="checkbox"/>	FAR 52.222-48	Exemption from Application of Service Contract Act Provisions for Contracts for Maintenance, Calibration, and/or Repair of Certain Information Technology, Scientific and Medical and/or Office and Business Equipment – Contractor Certification	AUG 1996
<input checked="" type="checkbox"/>	FAR 52.249-1	Termination for Convenience of the Government (Fixed-Price) (Short-Form)	APR 1984

## SUPPLIES

<input type="checkbox"/>	FAR 52.211-16	Variation in Quantity	APR 1984
<input checked="" type="checkbox"/>	FAR 52.225-3	Buy American Act-Supplies	JAN 1994
<input checked="" type="checkbox"/>	FAR 52.246-16	Responsibility for Supplies	APR 1984
<input checked="" type="checkbox"/>	FAR 52.249-1	Termination for Convenience of the Government (Fixed-Price)	APR 1984

## OTHER CLAUSES

<input checked="" type="checkbox"/>	FAR 52.204-3	Taxpayer Identification TIN:_____ (Offeror Provides)	JUN 1997
<input type="checkbox"/>	FAR 52.204-4	Printing/Copying Double Sided on Recycle Paper	JUN 1996
<input type="checkbox"/>	FAR 52.207-4	Economic Purchase Quantity—Supplies (non GSA/FSS)	AUG 1987
<input type="checkbox"/>	FAR 52.207-5	Option to Purchase Equipment	FEB 1995
<input type="checkbox"/>	FAR 52.208-4	Vehicle Lease Payments	APR 1984
<input type="checkbox"/>	FAR 52.208-5	Condition of Leased Vehicles	APR 1984
<input type="checkbox"/>	FAR 52.208-6	Marking of Leased Vehicles	APR 1984
<input type="checkbox"/>	FAR 52.208-7	Tagging of Leased Vehicles	MAY 1986
<input type="checkbox"/>	FAR 52.213-1	Fast Payment Procedure	FEB 1998
<input checked="" type="checkbox"/>	FAR 52.213-2	Invoices	APR 1984
<input checked="" type="checkbox"/>	FAR 52.213-3	Notice to Supplier	APR 1984

## PURCHASE ORDER TERMS AND CONDITIONS

<input checked="" type="checkbox"/>	FAR 52.219-5	Very Small Business Set-Aside.	MAR 1999
<input type="checkbox"/>	FAR 52.219-11	Special 8 (a) Contract Conditions	FEB 1990
<input checked="" type="checkbox"/>	FAR 52.219-14	Limitations on Subcontracting	DEC 1996
<input type="checkbox"/>	FAR 52-219-17	Section 8 (a) Award	DEC 1996
<input type="checkbox"/>	FAR 52.222-20	Walsh-Healey Public Contracts Act	DEC 1996
<input checked="" type="checkbox"/>	FAR 52.222-21	Certification of Nonsegregated Facilities	APR 1984
<input checked="" type="checkbox"/>	FAR 52.222-26	Equal Opportunity	APR 1984
<input checked="" type="checkbox"/>	FAR 52.222-35	Affirmative Action for Special Disabled and Vietnam Era Veterans	APR 1984
<input type="checkbox"/>	FAR 52.222-36	Employment Reports on Special Disabled Veterans and Veterans of the Vietnam Era	JAN 1988
<input type="checkbox"/>	FAR 52.223-5	Pollution Prevention and Right-to-Know Information	MAR 1997
<input checked="" type="checkbox"/>	FAR 52.223-6	Drug Free Workplace	JAN 1997
<input checked="" type="checkbox"/>	FAR 52.232-16	Progress Payments	JUL 1991
<input type="checkbox"/>	FAR 52.232-18	Availability of Funds	APR 1984
<input checked="" type="checkbox"/>	FAR 52.245-2	Government Property (Fixed-Price Contracts)	DEC 1989
<input type="checkbox"/>	FAR 52.245-4	Government-Furnished Property (Short-Form)	APR 1984
<input type="checkbox"/>	FAR 52.246-1	Contractor Inspection Requirements	APR 1984
<input type="checkbox"/>	FAR 52.247-29	F.O.B. Origin	JUN 1988
<input checked="" type="checkbox"/>	FAR 52.247-34	F.O.B. Destination	NOV 1991
<input type="checkbox"/>	FAR 52.247-35	F.O.B. Destination Within Consignee's Premises	APR 1984
<input checked="" type="checkbox"/>	FAR 52.249-8	Default (Fixed-Price Supply and Service)	APR 1984

## Attachment No 2

### 52.219-1 Small Business Program Representations.

As prescribed in 19.307(a)(1), insert the following provision:

#### Small Business Program Representations (May 2001)

(a)(1) The North American Industry Classification System (NAICS) code for this acquisition is \_\_\_\_\_ *[insert NAICS code]*.

(2) The small business size standard is \_\_\_\_\_ *[insert size standard]*.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b) *Representations.* (1) The offeror represents as part of its offer that it \* is, \* is not a small business concern.

(2) *[Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.]* The offeror represents, for general statistical purposes, that it \* is, \* is not, a small disadvantaged business concern as defined in 13 CFR 124.1002.

(3) *[Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.]* The offeror represents as part of its offer that it \* is, \* is not a women-owned small business concern.

(4) *[Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.]* The offeror represents as part of its offer that it \* is, \* is not a veteran-owned small business concern.

(5) *[Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (b)(4) of this provision.]* The offeror represents as part of its offer that it \* is, \* is not a service-disabled veteran-owned small business concern.

(c) *Definitions.* As used in this provision--

"Service-disabled veteran-owned small business concern"--

(1) Means a small business concern--

(i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and

(ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

(2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

"Small business concern" means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR part 121 and the size standard in paragraph (a) of this provision.

"Veteran-owned small business concern" means a small business concern--

(1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and

(2) The management and daily business operations of which are controlled by one or more veterans.

"Women-owned small business concern" means a small business concern--

(1) That is at least 51 percent owned by one or more women; or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and

(2) Whose management and daily business operations are controlled by one or more women.

(d) *Notice.* (1) If this solicitation is for supplies and has been set aside, in whole or in part, for small business concerns, then the clause in this solicitation providing notice of the set-aside contains restrictions on the source of the end items to be furnished.

(2) Under 15 U.S.C. 645(d), any person who misrepresents a firm's status as a small, HUBZone small, small disadvantaged, or women-owned small business concern in order to obtain a contract to be awarded under the preference programs established pursuant to section 8(a), 8(d), 9, or 15 of the Small Business Act or any other provision of Federal law that specifically references section 8(d) for a definition of program eligibility, shall--

(i) Be punished by imposition of fine, imprisonment, or both;

(ii) Be subject to administrative remedies, including suspension and debarment; and

(iii) Be ineligible for participation in programs conducted under the authority of the Act.

(End of provision)

*Alternate I (Oct 2000).* As prescribed in 19.307(a)(2), add the following paragraph (b)(6) to the basic provision:

(6) *[Complete only if offeror represented itself as a small business concern in paragraph (b)(1) of this provision.]* The offeror represents, as part of its offer, that--

(i) It \* is, \* is not a HUBZone small business concern listed, on the date of this representation, on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration, and no material change in ownership and control, principal office of ownership, or HUBZone employee percentage has occurred since it was certified by the Small Business Administration in accordance with 13 CFR part 126; and

(ii) It \* is, \* is not a joint venture that complies with the requirements of 13 CFR part 126, and the representation in paragraph (b)(6)(i) of this provision is accurate for the HUBZone small business concern or concerns that are participating in the joint venture. [*The offeror shall enter the name or names of the HUBZone small business concern or concerns that are participating in the joint venture: \_\_\_\_\_.*] Each HUBZone small business concern participating in the joint venture shall submit a separate signed copy of the HUBZone representation.

*Alternate II (Oct 2000).* As prescribed in 19.307(a)(3), add the following paragraph (b)(7) to the basic provision:

(7) [*Complete if offeror represented itself as disadvantaged in paragraph (b)(2) of this provision.*] The offeror shall check the category in which its ownership falls:

\_\_\_\_\_ Black American.

\_\_\_\_\_ Hispanic American.

\_\_\_\_\_ Native American (American Indians, Eskimos, Aleuts, or Native Hawaiians).

\_\_\_\_\_ Asian-Pacific American (persons with origins from Burma, Thailand, Malaysia, Indonesia, Singapore, Brunei, Japan, China, Taiwan, Laos, Cambodia (Kampuchea), Vietnam, Korea, The Philippines, U.S. Trust Territory of the Pacific Islands (Republic of Palau), Republic of the Marshall Islands, Federated States of Micronesia, the Commonwealth of the Northern Mariana Islands, Guam, Samoa, Macao, Hong Kong, Fiji, Tonga, Kiribati, Tuvalu, or Nauru).

\_\_\_\_\_ Subcontinent Asian (Asian-Indian) American (persons with origins from India, Pakistan, Bangladesh, Sri Lanka, Bhutan, the Maldives Islands, or Nepal).

\_\_\_\_\_ Individual/concern, other than one of the preceding.



## Attachment No. 3

### **Purchase Recommendations for Audio-Visual Upgrades to Volpe Center Room 1-345A**

**Overview:** Room 1-345A will be a moderate size (17' x 19'; 323 sq. ft.) conference room, currently configured with a 3-tube CRT projector and various computer and audio-visual sources. The proposed upgrades will replace the projector and some other equipment, while incorporating some existing equipment into a modern, flexible and easy to use system. Equipment will be housed in a rack-based console. The projectors (LCD and overhead [vu-graph]) and speakerphone will be portable and will be used from the conference table on an as-needed basis. Connections for projectors, etc., will be fed from the equipment rack location, down the wall and under the floor to a custom connection panel on the conference table. LAN, telephone, and electrical power will also be fed to the custom panel on the table via floor-mounted jacks.

**Additional equipment to be purchased separately and to be integrated into new installation:**

- Dell Multimedia Computer
- Epson Networkable Inkjet Printer

**Important Note:** Items specified below as "Examples" are provided to exemplify equipment that meets our specifications. Vendors may substitute other brands or models as long as they are equivalent and meet the same requirements.

QTY	Description
1	<b>Portable Multimedia LCD Projector/Document Camera</b>  <i>Primary Function:</i> Front projection of various video sources, including computer and high resolution workstations (up to and including S-XGA), component (from DVD), and composite and S-video (from VCR and demodulated RF sources); also has capability for uses as a document camera; to be used on conference table. <i>Minimum specifications:</i> <ul style="list-style-type: none"><li>O True XGA (1024x768) native resolution</li><li>O 1000 ANSI Lumens</li><li>O Composite and S-Video Inputs</li><li>O Multiple Computer Inputs</li><li>O Built-in document camera</li><li>O Portable and easy to set up</li><li>O Remote control (to serve as main control system)</li><li>O 3 Year Warranty, parts and labor; 90 days on lamp</li></ul> <b>Example: Toshiba TLP-781 (with Document Camera)</b>
1	<b>Spare Lamp for above projector</b>
1	<b>Front Projection Electric Screen, 70"x70", Matte White</b> <i>Example: Dalite Cosmopolitan Matte White, 70" x 70"</i>
1	<b>Electronic Whiteboard (wall-mounted)</b> <i>Minimum Specifications:</i> <ul style="list-style-type: none"><li>O Built-in Printer</li><li>O 72" Diagonal image</li></ul> <b>Example: Plus BF030W</b>

2

## DVD Players

*Minimum Specifications:*

- O Progressive Scan (480p/I switchable)
- O Able to read DVD Video, DVD-R, VideoCD, CD-R, CD-RW
- O S-Video output
- O Hi-Fi Audio

**Example: Panasonic DVD-RP62K (with one rackmount kit)**

**(Note: one will be rackmounted, one will be on A-V Cart with TV/Monitor)**

2

## Videocassette Recorders

*Minimum Specifications:*

- O S-VHS Record/Playback, 3-speed
- O Hi-Fi Audio

**Example: Panasonic PV-VS4821 (with one rackmount kit)**

**(Note: one will be rackmounted, one will be on A-V Cart with TV/Monitor)**

1

## Television/Monitor

*Primary Function:* For use with VCR and DVD player on portable A-V Cart

*Minimum Specifications:*

- O 27" picture tube; comb filter
- O Multiple A-V inputs
- O ADA-compliant (built-in closed captioning)
- O Compatible with DVD and VCR remote controls

**Example: Panasonic CT-27G5**

1

## Conference Telephone

*Primary Function:* Group telephone conferences

*Minimum Specifications:*

- O Full duplex voice communication
- O One external microphone in addition to internal microphone
- O Capability for adding one more microphone for larger groups

**Example: Polycom Soundstation EX with one extra microphone**

2 pr.

## Ceiling Flush-Mounted Speakers

*Minimum Specifications:*

- O 100Hz-16,000Hz
- O Round, flush-mounted, white

**Example: Cambridge Soundworks Ambiance 60 (4 speakers total)**

1

## Stereo Receiver

*Primary Function:* Amplify various audio sources

*Minimum Specifications:*

- O Dolby Digital and DTS decoders built-in
- O 100 watts x 2 min. RMS, both channels driven into 8 ohms from 40Hz to 20kHz with no more than 0.8% THD; 100 watts x 5 min. RMS, into 8 ohms, 1kHz, 0.8% THD
- LCD Multi-Brand A/V Remote Control (VCR/TV/CATV/DBS)
- 15 AM and 30 FM station memory
- AV COMPU LINK provides simple one touch operation between your JVC audio and video components. For example, pop a pre-recorded VHS tape into the VCR and it will automatically power up your receiver and your television and then turn them each to the proper inputs.
- 3 Composite Video Inputs, 3 S-Video Inputs

- 2 Composite Video Outputs, 2 S-Video Outputs

**Example: JVC RX-7010 (with rackmount kit)**

## 1 Closed Caption Decoder

*Primary Function:* Decode TV captions for hearing impaired

*Minimum Specifications:*

- Decode all currently used captioning signals
- To be placed in-line from VCR output to projector video

**Example: MyCap Closed Caption Decoder**

## 2 Custom A-V Input/Output Panels

*Primary Function:* Inputs and outputs to feed A-V projector and audio system

*Minimum Specifications:*

### ○ One to be wall-mounted near computer and equipment rack

- 1 pr. RCA jacks to amplifier (from audio jack on table)
- 1 Female HD-15 (from computer to HD-15 jack on table)
- 1 BNC Composite video jack (to RCA video jack on table)
- 1 S-Video jack (to S-video jack on table)
- 1 pr. Speaker jacks (split to 2 pr. Speakers in ceiling)
- 1 LAN jack

### ○ One to be mounted into 8 ft. round conference table supplied by Volpe Center

- 1 stereo-mini jack from laptop (to corresponding RCA pair on wall)
- 1 Female HD-15 (from wall jack)
- 1 RCA Composite video jack (from wall jack)
- 1 S-Video jack (from wall jack)
- 2x110 Volt A.C. outlets
- 2x LAN jacks
- 1 Telephone jack

**Example: Extron Cable Cubby**

## 1 Overhead Transparency Projector

*Primary Function:* Project overhead transparencies on screen

*Minimum Specifications:*

- 4000 lumens
- Two lense settings: Triplet and wide-angle
- Economy switch
- Lifetime warranty

**Example: Dukane SF-4030**

## 1 Wireless Mouse and Keyboard

*Primary Function:* Computer control from the conference table

*Minimum Specifications:*

- RF interface at least 20 ft. w/o interference
- User-friendly design
- Compatible with in-room computer

**Example: Gyropoint Pro RF Wireless Mouse and Keyboard**

- 1 Workstation Console with Single Equipment Rack**  
*Primary Function:* To hold key presentation equipment, including computer, with ergonomically comfortable work surface  
*Minimum Specifications:*  
O 60" x 29" desk-height work surface  
O Single 14U 19" equipment rack below work surface  
O Black sides and black "granite" work surface  
**Example: Winsted E4727**

- 1 Audiovisual/TV Cart**  
*Primary Function:* Safe, sturdy support and mobility for 27" TV, VCR & DVD  
*Minimum Specifications:*  
O 54" High with two shelves  
O Wide body design, rated for carrying 27" TV/Monitor  
O 3-prong electrical connections with extension cord  
O 4" swivel casters (2 lockable)  
**Example: Bretford BB54-E4**

- 1 Miscellaneous Cables, Connectors, and Fittings for Installation and Integration**

- 1 Contractor will handle all engineering, programming, and installation of above items as a new installation, integrated with listed A-V components and computer that have already been purchased for the installation. Contractor will also provide on-site instruction in system use, as well as full diagrams and documentation of system design, and manufacturer's user manuals; and 1 year warranty and service on the installed system. Volpe's on-site contractors will mount projector and whiteboard; install in-wall, in-ceiling, and in-floor cabling and electricals.**

*Installation acceptance will be subject to proof of meeting normal performance expectations of all audio-visual functions, as well as provision of professional staff instruction, drawings, manuals, and written warranties.*

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## **Purchase Recommendations for Audio-Visual Upgrades to Volpe Center Room 1-345B**

**Overview:** Room 1-345B will be a moderate size (1-345B = 14' x 19'; 266 sq. ft.) conference room, currently without any significant audio-visual sources. The proposed upgrades will create a modern, flexible and easy to use system. The proposed upgrades will add new equipment and incorporate some existing equipment into a modern, flexible and easy to use system. Equipment will be housed in a rack-based console. The LCD projector will be ceiling-mounted, while the overhead (vu-graph) projector and speakerphone will be portable and will be used from the conference table on an as-needed basis. Connections for the projector and speakers will be fed from the equipment rack location up the wall and through the ceiling to the respective projector and speakers. Connections for equipment to be used on the conference table (laptop computer, speakerphone, etc.) will be fed from the equipment rack location down the wall and under the floor to a custom connection panel on the conference table. LAN, telephone, and electrical power will also be fed to the custom panel on the table via floor-mounted jacks.

### **Equipment to be retained from current installation and integrated into new installation:**

- Polycom Soundstation
- Apollo Overhead (Vu-graph) Projector

### **Additional equipment to be purchased separately and to be integrated into new installation:**

- Dell Multimedia Computer
- Epson Networkable Inkjet Printer

**Important Note:** Items specified below as “*Examples*” are provided to exemplify equipment that meets our specifications. Vendors may substitute other brands or models as long as they are equivalent and meet the same requirements.

### **New Equipment:**

QTY	Description
-----	-------------

<b>1</b>	<b>Portable Multimedia LCD Projector</b>
----------	--

*Primary Function:* Front projection of various video sources, including computer and high resolution workstations (up to and including S-XGA), component (from DVD), and composite and S-video (from VCR and demodulated RF sources); to be mounted in ceiling.

*Minimum specifications:*

- O True XGA (1024x768) native resolution
- O 3500 ANSI Lumens
- O Composite and S-Video Inputs
- O Multiple Computer Inputs
- O Portable and easy to set up
- O Remote control (to serve as main control system)
- O 3 Year Warranty, parts and labor; 90 days on lamp

*Example:* Sanyo XP-45/L

<b>1</b>	<b>Spare Lamp for above projector</b>
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<b>1</b>	<b>Ceiling mount for above projector</b>
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<b>3</b>	<b>Front Projection Electric Screen, 84”x 84”, Matte White</b> <i>Example: Dalite Cosmopolitan Electrol, Matte White</i>
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- 4 Electronic Whiteboard (wall-mounted)**  
**Minimum Specifications:**  
O Built-in Printer  
O 72" Diagonal image  
**Example: Plus BF030W**
- 1 DVD Player**  
**Minimum Specifications:**  
O Progressive Scan (480p/I switchable)  
O Able to read DVD Video, DVD-R, VideoCD, CD-R, CD-RW  
O S-Video output  
O Hi-Fi Audio  
**Example: Panasonic DVD-RP62K (with one rackmount kit)**
- 1 Videocassette Recorder**  
**Minimum Specifications:**  
O S-VHS Record/Playback, 3-speed  
O Hi-Fi Audio  
**Example: Panasonic PV-VS4821 (with rackmount kit)**
- 2 pr. Ceiling Flush-Mounted Speakers**  
**Minimum Specifications:**  
O 100Hz-16,000Hz  
O Round, flush-mounted, white  
**Example: Cambridge Soundworks Ambiance 60 (4 speakers total)**
- 1 Stereo Receiver**  
**Primary Function:** Amplify various audio sources  
**Minimum Specifications:**  
O Dolby Digital and DTS decoders built-in  
O 100 watts x 2 min. RMS, both channels driven into 8 ohms from 40Hz to 20kHz with no more than 0.8% THD; 100 watts x 5 min. RMS, into 8 ohms, 1kHz, 0.8% THD  
  - LCD Multi-Brand A/V Remote Control (VCR/TV/CATV/DBS)
  - 15 AM and 30 FM station memory
  - AV COMPU LINK provides simple one touch operation between your JVC audio and video components. For example, pop a pre-recorded VHS tape into the VCR and it will automatically power up your receiver and your television and then turn them each to the proper inputs.
  - 3 Composite Video Inputs, 3 S-Video Inputs
  - 2 Composite Video Outputs, 2 S-Video Outputs**Example: JVC RX-7010 (with rackmount kit)**
- 1 Closed Caption Decoder**  
**Primary Function:** Decode TV captions for hearing impaired  
**Minimum Specifications:**  
O Decode all currently used captioning signals  
O To be placed in-line from VCR output to projector video  
**Example: MyCap Closed Caption Decoder**

### **3 Custom A-V Input/Output Panels**

**Primary Function:** Inputs and outputs to feed A-V projector and audio system

**Minimum Specifications:**

**O One to be wall-mounted near computer and equipment rack**

- 1 pr. RCA jacks to amplifier (from audio jack on table)
- 1 Female HD-15 (from computer to HD-15 jack on table)
- 1 BNC Composite video jack (to RCA video jack on table)
- 1 S-Video jack (to S-video jack on table)
- 1 pr. Speaker jacks (split to 2 pr. Speakers in ceiling)
- 1 LAN jack

**O Two to be mounted into 10' long conference table (supplied by Volpe Center)**

- 1 stereo-mini jack from laptop (to corresponding RCA pair on wall)
- 1 Female HD-15 (from wall jack)
- 1 RCA Composite video jack (from wall jack)
- 1 S-Video jack (from wall jack)
- 2x110 Volt A.C. outlets
- 2x LAN jacks
- 1 Telephone jack

**Example: Extron Cable Cubby**

### **1 Workstation Console with Single Equipment Rack**

**Primary Function:** To hold key presentation equipment, including computer, with ergonomically comfortable work surface

**Minimum Specifications:**

- 60" x 29" desk-height work surface
- Single 14U 19" equipment rack below work surface
- Black sides and black "granite" work surface

**Example: Winsted E4727**

### **1 Wireless Mouse and Keyboard**

**Primary Function:** Computer control from the conference table

**Minimum Specifications:**

- RF interface at least 20 ft. w/o interference
- User-friendly design
- Compatible with in-room computer

**Example: Gyropoint Pro RF Wireless Mouse and Keyboard**

### **1 Miscellaneous Cables, Connectors, and Fittings for Installation and Integration**

### **1 Contractor will handle all engineering, programming, and installation of above items as a new installation, integrated with listed A-V components and computer that have already been purchased for the installation. Contractor will also provide on-site instruction in system use, as well as full diagrams and documentation of system design, and manufacturer's user manuals; and 1 year warranty and service on the installed system. Volpe's on-site contractors will mount projector and whiteboard; install in-wall, in-ceiling, and in-floor cabling and electricals.**

*Installation acceptance will be subject to proof of meeting normal performance expectations of all audio-visual functions, as well as provision of professional staff instruction, drawings, manuals, and written warranties.*

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